

Ag. Waste Application and Excavated Ponds
Fall River County, South
Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Aa: Absted-----	85	Very limited Restricted permeability Sodium content Salinity	1.00 1.00 0.01	Very limited Deep to water	1.00
AaC: Alice-----	90	Not limited		Very limited Deep to water	1.00
AbA: Altvan-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
AbB: Altvan-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Ap: Aquolls-----	100	Very limited Ponding Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Cutbanks cave Slow refill	1.00 0.30
Ar: Arvada-----	90	Very limited Restricted permeability Sodium content Runoff limitation Droughty	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
AsB: Ascalon-----	90	Not limited		Very limited Deep to water	1.00
AsC: Ascalon-----	90	Not limited		Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Fall River County, South
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Ba: Badland-----	80	Not rated		Not rated	
Bb: Bankard-----	90	Very limited Filtering capacity Flooding Leaching limitation Droughty	1.00 0.60 0.45 0.42	Very limited Deep to water	1.00
Bc: Barnum-----	90	Somewhat limited Flooding Salinity	0.60 0.01	Very limited Deep to water	1.00
BoA: Boneek-----	95	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
BoB: Boneek-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
BpB: Boneek-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
BrD: Broadhurst-----	90	Very limited Restricted permeability Too acid Salinity Runoff limitation Slope	1.00 0.62 0.50 0.40 0.04	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Fall River County, South
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
BuB: Bufton-----	90	Somewhat limited Restricted permeability Sodium content	0.89 0.50	Very limited Deep to water	1.00
BvD: Butche-----	55	Very limited Depth to bedrock Droughty Runoff limitation Slope	1.00 1.00 0.40 0.04	Very limited Deep to water	1.00
Boneek-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
CnD: Colby-----	50	Somewhat limited Slope	0.37	Very limited Deep to water	1.00
Norka-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
DaB: Dailey-----	90	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.65 0.45	Very limited Deep to water	1.00
DaC: Dailey-----	90	Very limited Filtering capacity Droughty Leaching limitation Slope	1.00 0.65 0.45 0.04	Very limited Deep to water	1.00
DwA: Dwyer-----	90	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.23	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Fall River County, South
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
DwB: Dwyer-----	90	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.23	Very limited Deep to water	1.00
DwE: Dwyer-----	85	Very limited Slope Filtering capacity Leaching limitation Droughty	1.00 1.00 0.45 0.23	Very limited Deep to water	1.00
EaC: Eckley-----	90	Very limited Filtering capacity Droughty	1.00 0.61	Very limited Deep to water	1.00
Ga: Glenberg-----	90	Not limited		Very limited Deep to water	1.00
GrE: Grummit-----	60	Very limited Slope Depth to bedrock Droughty Too acid Low adsorption	1.00 1.00 1.00 0.78 0.51	Very limited Deep to water	1.00
Rock Outcrop, Acid--	30	Not rated		Not rated	
GsD: Grummit-----	55	Very limited Depth to bedrock Droughty Too acid Slope Low adsorption	1.00 1.00 0.78 0.63 0.51	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Fall River County, South
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Snomo-----	30	Somewhat limited Too acid Slope	0.50 0.04	Very limited Deep to water	1.00
Ha: Haverson-----	90	Not limited		Very limited Deep to water	1.00
HbB: Haverson Variant----	90	Not limited		Very limited Deep to water	1.00
He: Hisle-----	60	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 1.00 0.42 0.40	Very limited Deep to water	1.00
Slickspots, Dry-----	30	Not rated		Not rated	
Ho: Hoven-----	95	Very limited Restricted permeability Depth to saturated zone Ponding Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
JaB: Jayem-----	90	Not limited		Very limited Deep to water	1.00
KaB: Kadoka-----	90	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Fall River County, South
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
KeD: Kadoka-----	55	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
Epping-----	30	Very limited Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 0.63 0.40	Very limited Deep to water	1.00
KyA: Kyle-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.32	Very limited Deep to water	1.00
KyB: Kyle-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.32	Very limited Deep to water	1.00
Lo: Lohmiller-----	90	Somewhat limited Restricted permeability Salinity	0.89 0.01	Very limited Deep to water	1.00
MaA: Manvel-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
MbA: Manzanola-----	90	Very limited Restricted permeability Sodium content	1.00 0.82	Very limited Deep to water	1.00
MbB: Manzanola-----	90	Very limited Restricted permeability Sodium content	1.00 0.82	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Fall River County, South
Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
MmE: Mathias-----	50	Very limited Slope Cobble content Large stones on the surface	1.00 1.00 0.50	Very limited Deep to water	1.00
Midway-----	20	Very limited Slope Depth to bedrock Droughty Restricted permeability Sodium content	1.00 1.00 1.00 0.89 0.50	Very limited Deep to water	1.00
Rock Outcrop, Sandy-	15	Not rated		Not rated	
MnF: Mathias-----	40	Very limited Slope Cobble content Large stones on the surface	1.00 1.00 0.50	Very limited Deep to water	1.00
Rockoa-----	35	Very limited Slope Cobble content Large stones on the surface	1.00 1.00 0.18	Very limited Deep to water	1.00
Rock Outcrop, Sandy-	15	Not rated		Not rated	
MoB: Minnequa-----	90	Somewhat limited Droughty Depth to bedrock Sodium content Salinity	0.79 0.42 0.32 0.01	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Fall River County, South
Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
MpE: Minnequa-----	50	Somewhat limited Droughty Slope Depth to bedrock Sodium content Salinity	 0.79 0.63 0.42 0.32 0.01	Very limited Deep to water	1.00
Midway-----	35	Very limited Slope Depth to bedrock Droughty Restricted permeability Sodium content	 1.00 1.00 1.00 0.89 0.50	Very limited Deep to water	1.00
MtA: Mitchell-----	90	Not limited		Very limited Deep to water	1.00
MtB: Mitchell-----	90	Not limited		Very limited Deep to water	1.00
NeD: Nevee-----	90	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
NoA: Norka-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
NoB: Norka-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
NoC: Norka-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
NuA: Nunn-----	90	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Fall River County, South
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
NuB: Nunn-----	90	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
NuC: Nunn-----	90	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
OrE: Orella-----	60	Very limited Restricted permeability Depth to bedrock Droughty Slope Sodium content	1.00 1.00 1.00 1.00	Very limited Deep to water	1.00
Rock Outcrop, Soft--	30	Not rated		Not rated	
PaD: Paunsaugunt-----	55	Very limited Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 0.63 0.40	Very limited Deep to water	1.00
Boneek-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
PbF: Paunsaugunt-----	40	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Vanocker-----	30	Very limited Slope Large stones on the surface	1.00 0.18	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Fall River County, South
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Rock Outcrop, Hard--	15	Not rated		Not rated	
PeB: Pierre-----	90	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 1.00 0.42 0.40 0.18	Very limited Deep to water	1.00
PgE: Pierre-----	60	Very limited Restricted permeability Droughty Slope Depth to bedrock Runoff limitation	1.00 1.00 0.63 0.42 0.40	Very limited Deep to water	1.00
Grummit-----	30	Very limited Depth to bedrock Droughty Slope Too acid Low adsorption	1.00 1.00 1.00 0.78 0.51	Very limited Deep to water	1.00
PsE: Pierre-----	50	Very limited Restricted permeability Droughty Slope Depth to bedrock Runoff limitation	1.00 1.00 0.63 0.42 0.40	Very limited Deep to water	1.00
Samsil-----	35	Very limited Restricted permeability Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00

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Fall River County, South
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		Rating class and limiting features	Value	Rating class and limiting features	Value
Pt: Orthents, Gravelly--	100	Not rated		Not rated	
Pu: Pits-----	100	Not rated		Not rated	
ReD: Rekop-----	35	Very limited Depth to bedrock Droughty Slope Runoff limitation Low adsorption	1.00 1.00 0.84 0.40 0.01	Very limited Deep to water	1.00
Gystrum-----	25	Very limited Salinity Slope Depth to bedrock Droughty	1.00 0.63 0.42 0.02	Very limited Deep to water	1.00
Tilford-----	25	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
RgF: Rock Outcrop, Sandy-	50	Not rated		Not rated	
Gystrum-----	35	Very limited Slope Salinity Depth to bedrock Droughty	1.00 1.00 0.42 0.02	Very limited Deep to water	1.00

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Fall River County, South
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
RoF: Rock Outcrop, Sandy-	40	Not rated		Not rated	
Mathias-----	25	Very limited Slope Cobble content Large stones on the surface	1.00 1.00 0.50	Very limited Deep to water	1.00
Butche-----	20	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
RrF: Rockoa-----	65	Very limited Slope Cobble content Large stones on the surface	1.00 1.00 0.18	Very limited Deep to water	1.00
Rock Outcrop, Sandy-	20	Not rated		Not rated	
SaE: Samsil-----	85	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Fall River County, South
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
SbD: Samsil-----	45	Very limited Restricted permeability Depth to bedrock Droughty Runoff limitation Slope	1.00 1.00 1.00 0.40 0.37	Very limited Deep to water	1.00
Pierre-----	40	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Slope	1.00 1.00 0.42 0.40 0.37	Very limited Deep to water	1.00
ScA: Satanta-----	90	Not limited		Very limited Deep to water	1.00
ScB: Satanta-----	90	Not limited		Very limited Deep to water	1.00
ScC: Satanta-----	85	Not limited		Very limited Deep to water	1.00
SdA: Savo-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
SdB: Savo-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
SmE: Schamber-----	45	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 1.00 0.45	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Fall River County, South
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Eckley-----	40	Very limited Filtering capacity Slope Droughty	1.00 0.63 0.61	Very limited Deep to water	1.00
SnE: Shingle-----	45	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Penrose-----	25	Very limited Slope Depth to bedrock Droughty Sodium content Runoff limitation	1.00 1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Rock Outcrop, Soft--	20	Not rated		Not rated	
SpF: Spearfish-----	50	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Rock Outcrop, Sandstone-----	35	Not rated		Not rated	
SsE: Spearfish-----	45	Very limited Depth to bedrock Large stones on the surface Droughty Slope Cobble content	1.00 1.00 1.00 1.00 1.00	Very limited Deep to water	1.00

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Fall River County, South
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Tilford-----	35	Very limited Large stones on the surface Cobble content Slope	1.00 1.00 0.37	Very limited Deep to water	1.00
St: Stetter-----	90	Very limited Restricted permeability Flooding Runoff limitation	1.00 0.60 0.40	Very limited Deep to water	1.00
Sw: Swanboy-----	90	Very limited Restricted permeability Runoff limitation Salinity Droughty	1.00 0.40 0.35 0.05	Very limited Deep to water	1.00
TaA: Tilford-----	90	Not limited		Very limited Deep to water	1.00
TaB: Tilford-----	90	Not limited		Very limited Deep to water	1.00
TaC: Tilford-----	90	Not limited		Very limited Deep to water	1.00
TgC: Tilford-----	55	Not limited		Very limited Deep to water	1.00
Gystrum-----	30	Very limited Salinity Depth to bedrock Droughty	 1.00 0.42 0.02	Very limited Deep to water	1.00
VaE: Valent-----	90	Very limited Droughty Slope Filtering capacity Leaching limitation	 1.00 1.00 1.00 0.45	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
Fall River County, South
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated	
WpC: Winler-----	50	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.42 0.40	Very limited Deep to water	1.00
Pierre-----	35	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 1.00 0.42 0.40 0.18	Very limited Deep to water	1.00
ZnE: Zigweid-----	50	Somewhat limited Slope	0.37	Very limited Deep to water	1.00
Nihill-----	35	Somewhat limited Slope Droughty	0.84 0.11	Very limited Deep to water	1.00

